

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended) A system for noninvasive measuring of a conductivity in a volume, said system comprising:

magnetic means arranged as a resonant circuit, said magnetic means being arranged to induce an oscillating magnetic field in said volume[[,]]; ~~and said system further comprising~~  
power supply means connectable to said magnetic means, said power supply means being arranged to provide a signal characteristic to a power loss of said resonant circuit upon an application of said magnetic field to said volume, wherein ~~characterized in that~~ the magnetic means are integrated into an insulating fabric carrier.

2. (Currently amended) A ~~The~~ system according to claim 1, ~~characterized in that~~ wherein the system comprises further magnetic means arranged as a further resonant circuit, said further magnetic means being arranged in a vicinity of a further volume in order to provide a reference signal.

3. (Currently amended) A system for monitoring a condition of a user, said system comprising:

- a sensor ~~ing means~~ arranged to be located in a vicinity of a target volume of the user for detecting information representative to the user's condition, said sensor ~~ing means~~ comprising:  
- ~~magnetic means arranged as a resonant circuit, said magnetic means being~~  
~~arranged to that induces~~ an oscillating magnetic field in said target volume, wherein ~~the magnetic means being resonant circuit is~~ integrated into an insulating fabric carrier,  
- a power supply that ~~means connectable to said magnetic means, said power supply means being arranged to provides~~ a signal characteristic to a power loss of said resonant circuit upon an application of said oscillating magnetic field to said target volume, and

- ~~a detector~~ ion means actuable by said sensing means, ~~said detection means~~  
~~being arranged~~ to process said signal in order to derive said information.

4. (Currently amended) A The system according to claim 3, ~~characterized in that said~~  
wherein the insulating fabric carrier is a part of clothing.

5. (Currently amended) A The system according to claim 3, ~~characterized in that said~~  
wherein the insulating fabric carrier is a part of a bed sheet.

6. (Currently amended) A The system according to claim 3, ~~characterized in that said~~  
wherein the insulating fabric carrier is a part of a safety belt.

7. (Currently amended) A The system according to claim 3, ~~characterized in that said~~  
wherein the insulating fabric carrier is a part of a furniture piece.

8. (Currently amended) A The system according to claim 3, ~~characterized in that wherein~~  
the system comprises a further sensor ~~ing means arranged to be~~ located in a vicinity of a further  
volume in order to provide a reference signal.

9. (Currently amended) A The system according to claim 8, ~~characterized in that wherein~~  
the further sensor ing means ~~comprises further magnetic means arranged as a resonant circuit,~~  
~~said further magnetic means being arranged to induce an oscillating magnetic field in said further~~  
volume.

10. (Currently amended) A The system according to claim 3, ~~characterised in that wherein~~  
the target volume comprises a heart of the user.

11. (Currently amended) An alarm system arranged for alarming upon a disorder in a  
condition of a user, said alarm system comprising:

- ~~a sensor~~ ing means ~~arranged to be~~ located in a vicinity of a target volume of the user for detecting information representative to the user's condition, said ~~sensor~~ ing means comprising ~~magnetic means arranged as a resonant circuit, said magnetic means being arranged~~ to induce an oscillating magnetic field in said target volume, wherein the resonant circuit is the magnetic means being integrated into an insulating fabric carrier,
- ~~a power supply means~~ connectable to said ~~sensor~~ ing means, ~~said power supply means being arranged~~ to provide a signal characteristic to a power loss of said resonant circuit upon an application of said oscillating magnetic field to said target volume,
- ~~a detector~~ ion means ~~actuatable by said sensor~~ ing means, ~~said detection means being arranged~~ to process said signal in order to derive said information, and
- ~~an alarm means~~ actuatable by the ~~detector~~ ion means, ~~said alarm means being arranged~~ to trigger an alarm signal upon detection of said information by the detection means.

12. (Currently amended) ~~An~~ The alarm system according to claim 11, said alarm system comprising a transmitter ~~transmission means arranged~~ to transmit the alarm signal to a remote station responsive to said alarm signal.

13. (Currently amended) The alarm system according to claim 12, said alarm system comprising a ~~S~~ sensor ~~ing means for use in a system according claim 1,~~ said ~~sensor~~ ing means comprising ~~ing magnetic means arranged as a resonant circuit, said magnetic means being conceived~~ to induce an oscillating magnetic field in a volume under investigation and, ~~said sensing means being further conceived~~ to be connectable to a power supply ~~means~~, said ~~sensor~~ ing means being integrated into an insulating fabric carrier.

14. (Currently amended) The ~~s~~ Sensor ~~ing means~~ according to claim 12, wherein said fabric carrier comprises threads of fabric, ~~characterized in that~~ wherein the resonant circuit magnetic means comprises a loop of a conductive material, said conductive material being interwoven with said threads of fabric.

15. (New) The system according to claim 1, wherein the resonant circuit further comprises a feedback loop arranged so that a voltage controlling an amplitude of the resonant circuit is proportional to a radio frequency power delivered by the resonant circuit.
16. (New) The system according to claim 15, wherein the resonant circuit further comprises a plurality of resonant circuits further comprising a plurality of feedback loops.
17. (New) The system according to claim 3, wherein the oscillating magnetic field in the target volume is an eddy current which generate a secondary magnetic field pointing in the opposite direction with respect to a primary magnetic field produced by the resonant circuit.
18. (New) The system according to claim 17, wherein the secondary magnetic field induces an electromotive force in the magnetic means, said electromotive force having a phase which is  $180^\circ$  relative to a driving current circulating through the resonant circuit.
19. (New) The alarm system according to claim 11, wherein the detector further comprises a preamplifier, a processing circuit and an analogue-to-digital converter.
20. (New) The alarm system according to claim 11, wherein the detector further comprises a sensor signal interpretation unit which derives a feature characteristic from a plurality of characteristics of the signal, wherein the feature characteristic is an abnormal physiological condition of a user.